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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/532,371	04/21/2005	Desmond John Best	P33127USw	8693
23347 GLAXOSMITH	7590 08/08/200 HKLINE	EXAMINER		
	INTELLECTUAL PRO	JARRELL, NOBLE E		
FIVE MOORE DR., PO BOX 13398 RESEARCH TRIANGLE PARK, NC 27709-3398			ART UNIT	PAPER NUMBER
			1624	
			NOTIFICATION DATE	DELIVERY MODE
			08/08/2008	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

USCIPRTP@GSK.COM LAURA.M.MCCULLEN@GSK.COM JULIE.D.MCFALLS@GSK.COM

Office Action Summary		Application	n No. Applicant(s)						
		10/532,37	71	BEST ET AL.					
		Examiner		Art Unit					
		Noble Jar		1624					
Period fo	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REF CHEVER IS LONGER, FROM THE MAILING nsions of time may be available under the provisions of 37 CFR SIX (6) MONTHS from the mailing date of this communication. O period for reply is specified above, the maximum statutory period are to reply within the set or extended period for reply will, by state reply received by the Office later than three months after the mained patent term adjustment. See 37 CFR 1.704(b).	DATE OF TH 1.136(a). In no evo od will apply and w rute, cause the app	HIS COMMUNICATION ent, however, may a reply be tin III expire SIX (6) MONTHS from lication to become ABANDONE	N. nely filed the mailing date of this of D (35 U.S.C. § 133).					
Status									
1) 又	Responsive to communication(s) filed on <u>15</u>	May 2008							
-	This action is FINAL . 2b) This action is non-final.								
3)	<i>,</i> —	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
٠,١	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Disposit	ion of Claims								
4)🖂	Claim(s) 1-3 and 7 is/are pending in the app	lication.							
,	4a) Of the above claim(s) is/are withdrawn from consideration.								
5) 又	☐ Solaim(s) 1-3 is/are allowed.								
·	☐ Claim(s) <u>7 is/are allowed.</u> ☐ Claim(s) <u>7</u> is/are rejected.								
·	Claim(s) is/are objected to.								
•	Claim(s) are subject to restriction and	l/or election r	equirement.						
Applicat	ion Papers								
	The specification is objected to by the Exami	ner							
, ,			Objected to by the F	Examiner.					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).									
		•	•	, ,	FR 1.121(d).				
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.									
Priority (under 35 U.S.C. § 119								
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:									
	1. Certified copies of the priority documents have been received.								
	2. Certified copies of the priority documents have been received in Application No								
	3. Copies of the certified copies of the priority documents have been received in this National Stage								
	application from the International Bureau (PCT Rule 17.2(a)).								
* See the attached detailed Office action for a list of the certified copies not received.									
Attachmen	t(s)								
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)									
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date Notice of Informal Patent Application									
Paper No(s)/Mail Date 6) Other:									

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DETAILED ACTION

Response to Arguments

1. The claim objections of 2/28/08 have been overcome by the amendment filed 5/15/2008.

2. The rejections under 35 U.S.C. 112 1st and 2nd paragraph have been overcome by the amendment filed 5/15/08.

Claim Rejections - 35 USC § 112

3. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

4. Claim 7 is rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. Applicants are not enabled for treatment of Alzheimer's disease.

The factors to be considered in determining whether a disclosure meets the enablement requirements of 35 U.S.C. 112, first paragraph, have been described in *In re Wands*, 858 F.2d 731, 8 USPQ2d 1400 (Fed. Cir., 1988). The court in Wands states, "Enablement is not precluded by the necessity for some experimentation, such as routine screening. However, experimentation needed to practice the invention must not be undue experimentation. The key word is 'undue', not 'experimentation'" (*Wands*, 8 USPQ2sd 1404). Clearly, enablement of a claimed invention cannot be predicated on the basis of quantity of experimentation required to make or use the invention. "Whether undue experimentation is needed is not a single, simple factual determination, but rather is a conclusion reached by weighing many factual considerations" (*Wands*, 8 USPQ2d 1404). Among these factors are: (1) the nature of the invention; (2) the breadth of the claims; (3) the state of the prior art; (4) the predictability or unpredictability of the art; (5) the relative skill of those in the art; (6) the amount of direction or guidance presented; (7) the presence or absence of working examples; and (8) the quantity of experimentation necessary.

Consideration of the relevant factors sufficient to establish a *prima facie* case for lack of enablement is set forth herein below:

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(1) The nature of the invention and (2) the breadth of the claims:

The claims are drawn to a method of treating Alzheimer's disease through inhibition of H3 receptors by administering compounds with comprising a phenyl ring connected to a C(O)piperazinyl or C(O)-1,4-diazepane ring at the *para* position and connected to an O-(CH₂)₃piperidine ring at the 1-position.

- (3) The state of the prior art and (4) the predictability or unpredictability of the art:

 Hull et al. (Drugs, **2006**, 66(16), 2075-93) teach that there are no disease-modifying therapies for Alzheimer's disease (abstract).
- (5) The relative skill of those in the art:

One of ordinary skill in the art is a Ph.D. scientist.

(6) The amount of direction or guidance presented and (7) the presence or absence of working examples:

The specification does not provide guidance for the treatment of Alzheimer's disease. Guidance one might expect to see would be drawn to showing that patients with Alzheimer's disease show marked and/or measurable improvement while under the administration of pharmaceutical compositions containing compounds of claim 1.

(8) The quantity of experimentation necessary:

Considering the state of the art as discussed by the references above, particularly with regards to claim 7 and the high unpredictability in the art as evidenced therein, and the lack of guidance provided in the specification, one of ordinary skill in the art would be burdened with undue experimentation to practice the invention commensurate in the scope of the claims.

Allowable Subject Matter

5. Claims 1-3 are allowed.

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6. The following is a statement of reasons for the indication of allowable subject matter: Beavers et al. (US7314937 issued January 1, 2008, claims priority to March 23, 2001) teach compound 173 (columns 131-132). This compound fails to anticipate or render obvious compounds of claims 1-3 because variable R¹ is a hexahydropyrrolo[1,2-a]pyrazine-2(1H)-carbonyl group. This ring does not anticipate or render obvious compounds of the elected group because a bridge is formed between variables R⁵a and R⁴a, not two different instances of variable R⁴a. A bridge can only be formed by two different instances of variable R⁴a (claim 1, lines 23-24).

Conclusion

7. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Noble Jarrell whose telephone number is (571) 272-9077. The examiner can normally be reached on M-F 7:30 A.M - 6:00 P.M. EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. James O. Wilson can be reached on (571) 272-0661. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Noble Jarrell/ Examiner, Art Unit 1624 /James O. Wilson/ Supervisory Patent Examiner, Art Unit 1624